Quick Start Guide
Mobile Hawk Handheld DPM Imager

MICROSCAN

P/N 83-110022 Rev A

Step 1 — Check Required Hardware

Mobile Hawk USB Hardware

1. One Mobile Hawk Handheld DPM Imager
2. One 12 ft. USB cable (pre-installed)

Mobile Hawk RS-232 Hardware

The RS-232 cable is affixed to the handle with two screws, a spacer, and a cable clip, which can be removed.

1. One Mobile Hawk Handheld DPM Imager
2. Cable clip attachment
3. Spacer
4. Two threaded screws
5. RS-232 Interface Kit (Optional Accessory)
   - 8 ft. coiled RS-232 cable
   - Power supply (U.S. Euro, or UK)

Refer to the *Mobile Hawk Handheld DPM Imager User's Manual* for information about changing or adding cables.

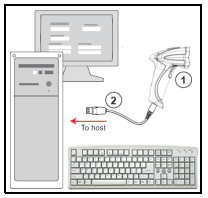
Step 2 — Set Up Hardware (USB)

Note: The USB interface draws its power from the host.

Hardware for USB

1	Mobile Hawk Handheld DPM Imager	FIS-6170-0001G
2	USB Cable	Included

Installation Steps for USB



USB Hardware

1. Connect the USB cable (**2**) to the host. You do not need to power off your host computer.
2. Open any program in your host computer that can receive keyboard text.
3. Read the **Reset to USB Factory Defaults** symbol below.
   Note: If you want symbol data to be entered as keyboard text, read the **USB Keyboard Mode** symbol below.
4. Read the **Save Settings** symbol below.

M049_03
Reset to USB Factory Defaults

M134_02
USB Keyboard Mode

Test Symbol

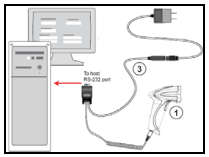
M188_02
Save Settings

Step 2 — Set Up Hardware (RS-232)

Hardware for RS-232

1	Mobile Hawk Handheld DPM Imager	FIS-6170-0001G
3	RS-232 Interface Kit (USA)	98-000074-04
	RS-232 Interface Kit (Europe)	98-000074-05
	RS-232 Interface Kit (UK)	98-000074-06

Installation Steps for RS-232



RS-232 Hardware

1. Power-off the host.
2. Attach the RS-232 cable to the Mobile Hawk.
3. Connect the RS-232 cable to the power supply cable.
4. Plug in the power supply and power-on the host.
5. Open a terminal program (HyperTerminal, for example) and set **57.6K** baud rate, **8** data bits, **none** parity, and **2** stop bits.
6. Read the **Reset to RS-232 Factory Defaults** symbol below.
7. Read the **Save Settings** symbol below.

M418_02
Reset to RS-232 Factory Defaults

Test Symbol

M188_02
Save Settings

Step 3 — Install ESP

ESP Software can be found on the Microscan Tools CD that is packaged with the Mobile Hawk.

1. Follow the prompts to install ESP from the CD.
2. Click on the ESP icon to run the program.

Note: ESP can also be installed from the **Download Center** at www.microscan.com.

Minimum System Requirements

- 166 MHz Pentium processor (Pentium II processor recommended)
- Windows Vista, XP, or 2000 operating system
- Internet Explorer 5.0 or higher
- 64 MB minimum RAM (128+ MB RAM recommended)
- 80 MB hard drive space
- 800 x 600 minimum 256 color display (1024 x 768 32-bit color recommended)

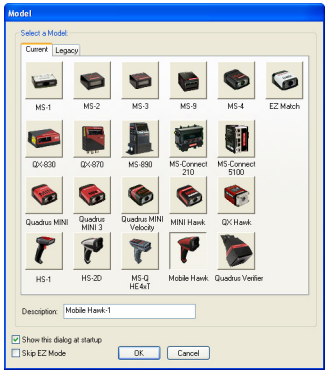
Important: The imager must be in USB or RS-232 Mode to connect to **ESP**. Read the symbol below that corresponds with your communication interface.

USB Mode

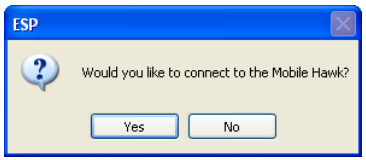
RS-232 Mode

Step 4 — Select Model

When you start **ESP**, the following menu will appear:



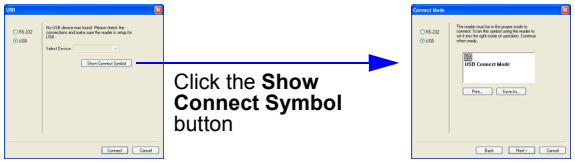
1. Click the Mobile Hawk button and then click **OK**. If you do not want to make this selection every time you start **ESP**, uncheck "Show this dialog at startup".
2. Select the default imager name (**Mobile Hawk-1**), or type a name of your choice in the **Description** text field and click **OK**.
3. Click **Yes** when this dialog appears:



Step 5 — Select Protocol

Select the communications protocol you are using and click **Next**.

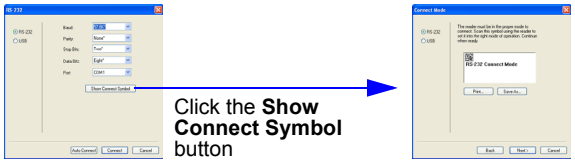
USB



Click the **Show Connect Symbol** button

1. You will see the **USB Connect Mode** symbol. Print and decode this symbol (if you have not already done so in Step 3) to ensure that you are in the correct communications mode. Keep the printed symbol in a convenient place for future use. Click **Next** when you are finished.
2. You will then see your imager's ID in the **Select Device** field. Click **Connect**.

RS-232



Click the **Show Connect Symbol** button

Print and decode the **RS-232 Connect Mode** symbol (if you have not already done so in Step 3) and decode it with the imager to ensure that you are in the correct communications mode. Keep the printed symbol in a convenient place for future use. Click **Next**, and then **Connect**.

Step 6 — Connect to ESP

USB

Once you have clicked **Connect** in the USB imager ID dialog (**Step 5**), the **CONNECTED** message will appear in a green box in the status bar at the bottom right of the screen.

You are now ready to configure the USB Mobile Hawk using **ESP**.

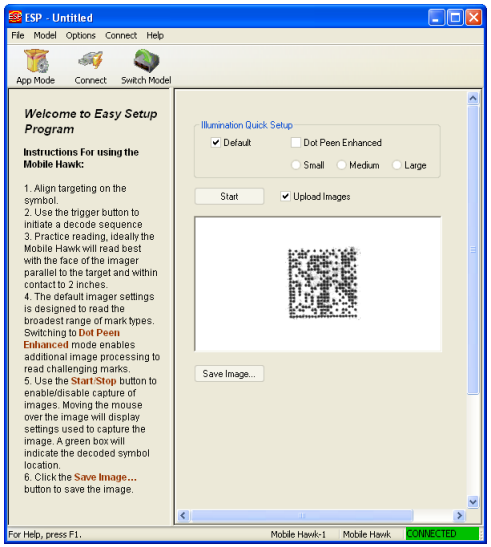
RS-232

Once you have selected RS-232 settings and COM port and clicked **Connect**, the **CONNECTED** message will appear in a green box in the status bar at the bottom right of the screen.

You are now ready to configure the RS-232 Mobile Hawk using **ESP**.

Step 7 — Configure the Imager

ESP's **EZ Mode** is the first view that appears once you are connected. This view features simple instructions as well as tools for decoding symbol data and taking image captures.

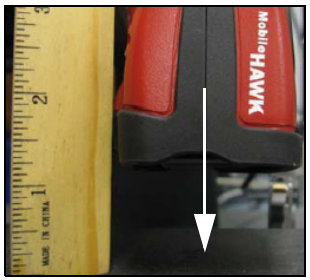


From here, you can click on **App Mode** to access tree controls and graphic user interfaces with more comprehensive configuration options.

Step 8 — Practice Decoding

The Mobile Hawk features simple blue targeting LEDs to indicate optimal read range.

1. Hold the imager about 6" from the mark and align the blue targeting pattern as shown here.



2. Move the front of the imager steadily downward toward the mark and parallel to the mark surface.
3. The imager will decode the mark at the optimal read distance – typically from the point of contact to .50" (contact – 12.70 mm).

Test Symbol

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Frequently-Used Settings

The following programming symbols allow you to control **USB Keyboard Mode**, **Targeting** settings, and **Beep and Vibration** settings.

M134_02 ***USB Keyboard Mode***

M734_01 ***Targeting LED On (Default)***

M735_01 ***Targeting LED Off***

M107_01 ***Vibrate On / Beep On (Default)***

M109_01 ***Vibrate On / Beep Off***

M108_01 ***Vibrate Off / Beep On***

M188_02 ***Save Settings***

Illumination Quick Setup

The following programming symbols allow you to set up and control illumination settings.

Q044_01 ***Illumination Default Mode***

Q045_01 ***Dot Peen Enhance Illumination Mode - Large Mark***

Q046_01 ***Dot Peen Enhance Illumination Mode - Medium Mark***

Q047_01 ***Dot Peen Enhance Illumination Mode - Medium Mark***

M188_02 ***Save Settings***